CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

Job No.: CQCE/BBMP/RMR/W.No.13/2017-18 Date: 13.07.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarhalli Division, BBMP, Bangalore
AGENCY	:	**Sri.R. MangalRaj,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/127/2016-17 Dated 23.02.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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⇒ Any Query regarding the report must be reported reported within 15days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office : # 39, 5TH Cross, Jayaregowdana Doddi, Rajarajeshwarinagar, Bangalore-560098

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Job No.: CQCE/BBMP/RMR/W.No.13/2017-18 Date : 13.07.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarhalli Division, BBMP, Bangalore.
Agency : **Sri.R. MangalRaj,**Contractor, Bangalore.
Name of Work : Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/127/2016-17 Dated 23.02.2017

Date of Testing : 13.07.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	173	1.15	1.15	98.85	95-100
20	8421	56.14	57.29	42.71	30-70
10	3458	23.05	80.35	19.65	10-35
4.75	2531	16.87	97.22	2.78	0-5

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Office : # 39, 5TH Cross, Javaregowdana Doddi, Rajarajeshwarinagar, Bangalore-560098
Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/RMR/W.No.13/2017-18 Date: 14.07.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Dasarhalli Division, BBMP, Bangalore
Agency	:	**Sri.R. MangalRaj,** Contractor, Bangalore.
Name of Work	:	Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	EE/DD/WO/127/2016-17 Dated 23.02.2017
Sample Identification	:	8mm,10mm,12mm,16mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	14.07.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	535	546	14
2	Fe 500	10	0.62	548	559	14.5
3	Fe 500	12	0.88	567	576	15
4	Fe 500	16	1.59	577	585	16

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Job No.: CQCE/BBMP/RMR/W.No.13/2017-18 26.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarhalli Division, BBMP, Bangalore

Agency : **Sri.R. MangalRaj,** Contractor, Bangalore.

Name of the work : Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/127/2016-17 Dated 23.02.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2017	26.07.2017	8.147	320.4	14.24
2	19.07.2017	26.07.2017	8.162	339.8	15.10
3	19.07.2017	26.07.2017	8.158	345.1	15.34

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/RMR/W.No.13/2017-18 27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarhalli Division, BBMP, Bangalore
Agency	: **Sri.R. MangalRaj,** Contractor, Bangalore.
Name of the work	: Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/127/2016-17 Dated 23.02.2017
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2017	27.07.2017	8.164	325.6	14.47
2	20.07.2017	27.07.2017	8.177	340.8	15.15
3	20.07.2017	27.07.2017	8.182	366.1	16.27

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27.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarhalli Division, BBMP, Bangalore
Agency	: **Sri.R. MangalRaj,** Contractor, Bangalore.
Name of the work	: Improvements & Asphalting to main & Cross Roads at Muneshwara Block area in Ward No. 13, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/127/2016-17 Dated 23.02.2017
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2017	27.07.2017	8.157	325.8	14.48
2	20.07.2017	27.07.2017	8.160	340.2	15.12
3	20.07.2017	27.07.2017	8.184	356.7	15.85

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